

POWER CONTROL CIRCUIT FOR LASER DIODE HAVING  
WAVELENGTH COMPENSATION

ABSTRACT OF THE DISCLOSURE

A control circuit for a laser diode includes a power controller and a wavelength  
5 controller. The power controller adjusts a bias current to the laser diode to change the  
power output of the laser diode. The power change can have a corresponding  
wavelength shift effect on the nominal operating wavelength of the laser diode. The  
wavelength controller compensates for the wavelength shift such that the laser diode  
maintains operation at the nominal wavelength. The circuit provides for electrical  
10 control of the laser output power without the need for a costly and bulky optical  
attenuator. The circuit also provides wavelength control to compensate for the  
relationship between laser diode operating temperature and wavelength.